

PRODUCTION OF ALUMINUM ALLOY SHEET MATERIAL FOR FORMING

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Abstract of JP7018390

PURPOSE:To improve the formability and strength of an aluminum alloy sheet material for forming used for the sheet material such as an automotive body sheet or the like. **CONSTITUTION:**The ingot of an Al alloy contg., by weight, 0.3 to 1.7% Si, 0.01 to 1.2% Cu, 0.01 to 1.1% Mn, 0.4 to 1.4% Mg and ≤ 1.0 Fe, and the balance Al with inevitable impurities and contg. one or \geq two kinds among 0.04 to 0.4% Cr, $\leq 0.25\%$ Zn, $\leq 0.4\%$ Zr and $\leq 0.2\%$ Ti is subjected to homogenizing treatment, is thereafter subjected to hot rolling and cold rolling, is then subjected to solution treatment in the temp. range of 450 deg.C to the solidus or below and is thereafter subjected to the regulation of a hardening stage and low temp. heat treatment to control the volume ratio of age hardening intermetallic compounds to 0.01 to 0.1%.

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